

08/252710

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

6544771

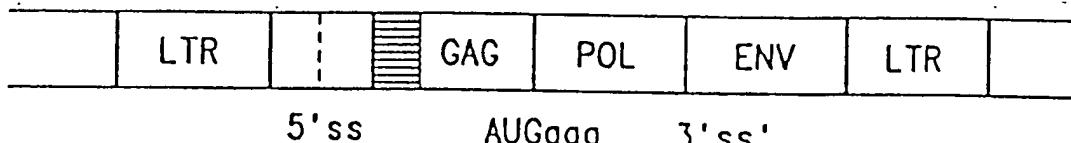


FIG. 1

APPROVED	O.G. FIG.
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FIG. 2A pLJ

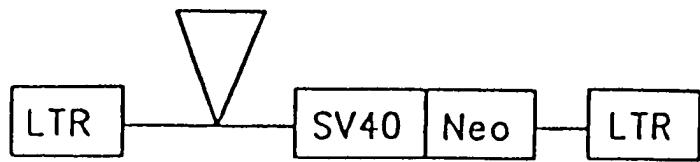


FIG. 2B pEm

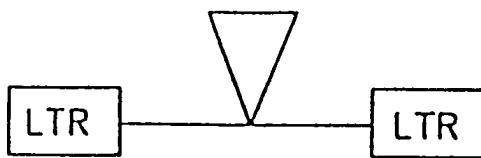


FIG. 2C MFG

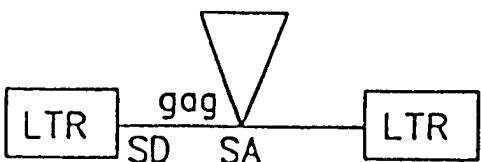
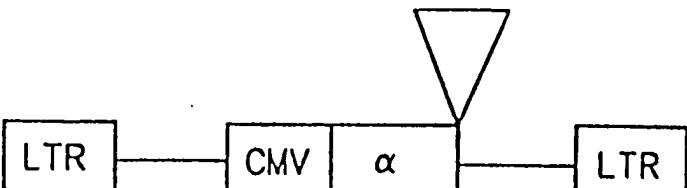


FIG. 2D  $\alpha$ SGC



APPROVED	O. G.	FIG.
BY	CLASS	SUBCLASS
WITSMAN		

Map of a genomic region showing restriction enzyme sites, cDNA clones, and markers. The map is divided into two main sections: a 5' end with Hind III, Sph I, and Xba I sites, and a 3' end with Bam HI, Nco I, and Sma I sites.

**5' End (Hind III, Sph I, Xba I sites):**

- Hind III:** -420, 0, 32, Nhe I, Asp 718, U3, R, U5, -151, 69, 145, Sma I, 27.
- Sph I:** (523 FROM Hind III) (200 FROM Hind III) Sall (2917 FROM EcoRI) (622 FROM Hind III)
- Xba I:** -500, -449, Xba I, -151.

**3' End (Bam HI, Nco I, Sma I sites):**

- Bam HI:** 1383, Nco I, Sma I, (1140-1148) SA, 744 Pst I, GAG, MOVg.1, 1433.
- Nco I:** 1383.
- Sma I:** 1383.
- Other markers:** 347, 744, 215, 568, (Hae III) 69, 145, Bgl I, 1045, Asp 718, 1230, 750, Sac II, 623.
- cDNA:** hGH cDNA "622 bp" (1140-1148).
- Other sites:** Pst I, Bgl I, Asp 718, U5, R, U3.

3  
E  
G  
E

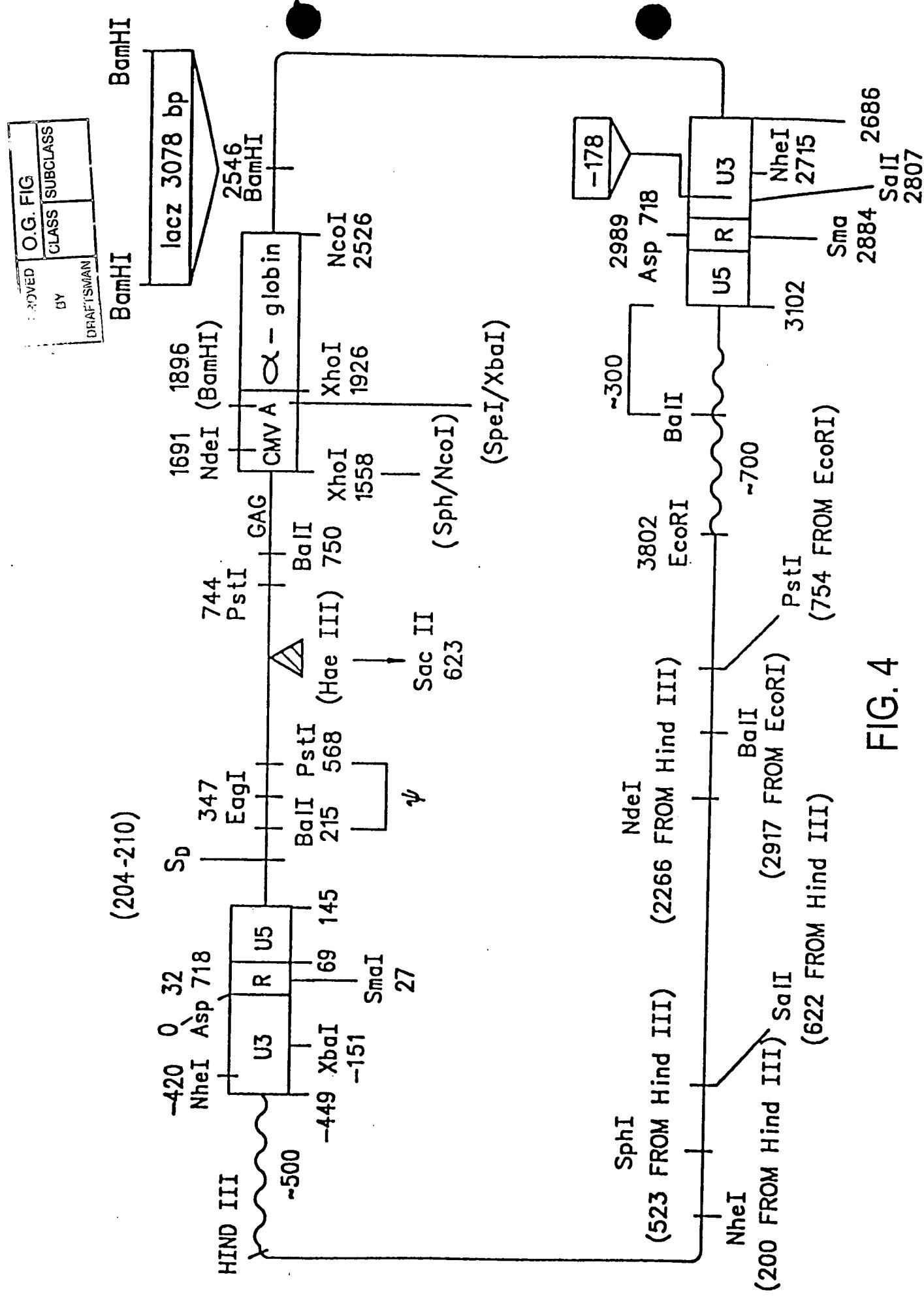


FIG. 4

APPROVED	O.G. FIG
BY	CLASS
MAFTSMAN	SUBCLASS

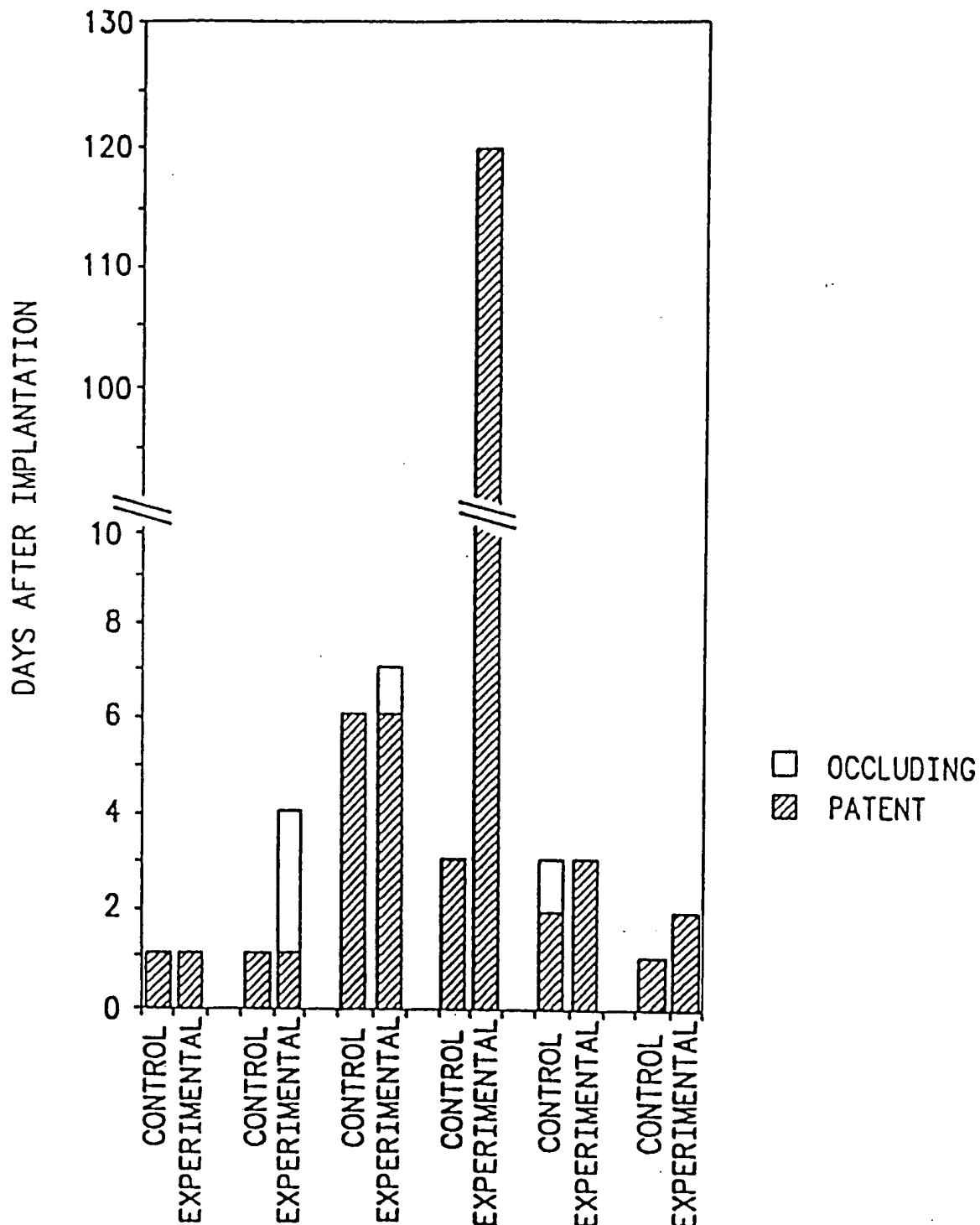


FIG. 6A

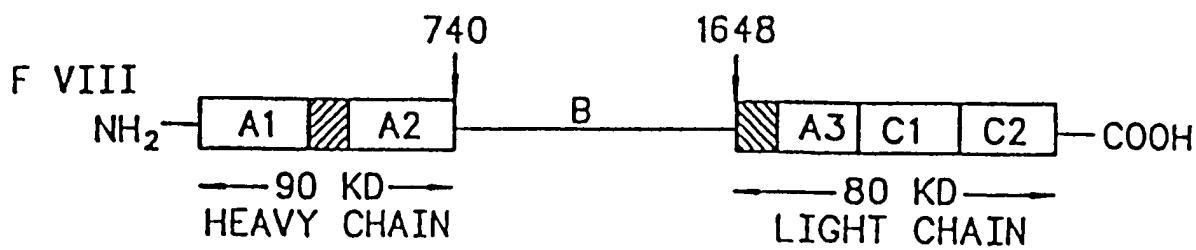
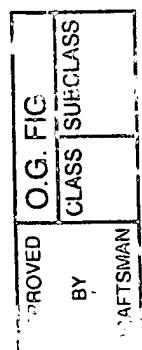


FIG. 6B

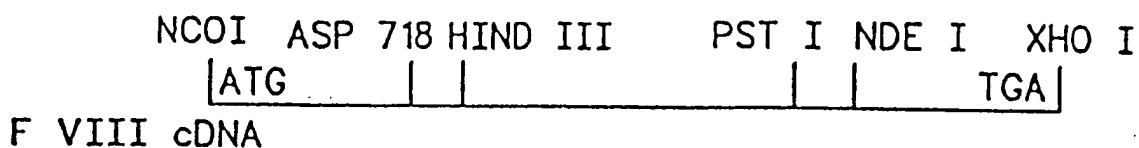
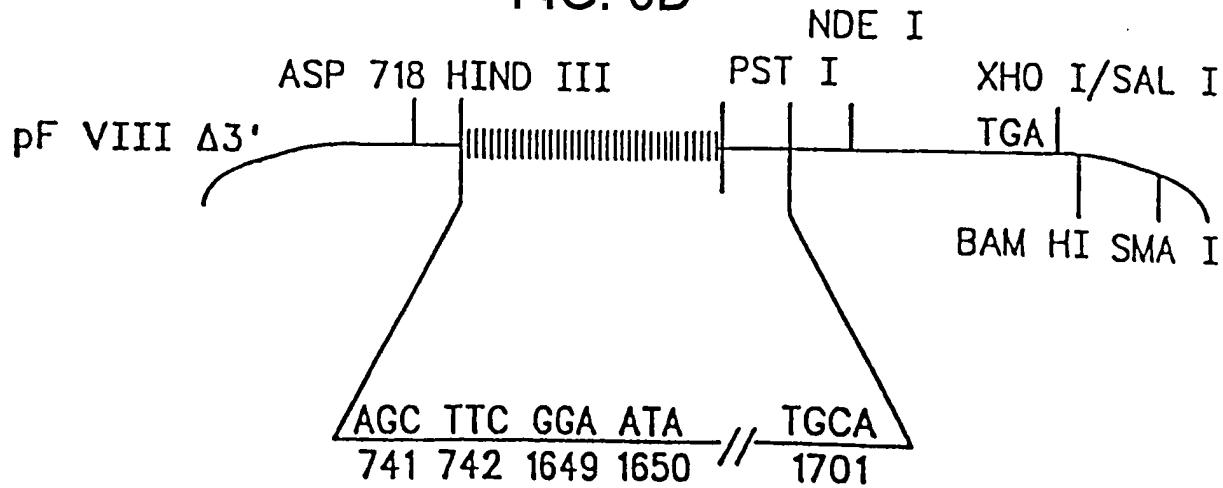


FIG. 6C



FIG. 6D



SEARCHED	O.G. FIG.
INDEXED	
CLASS	SUBCLASS

BY  
RAFTSMAN

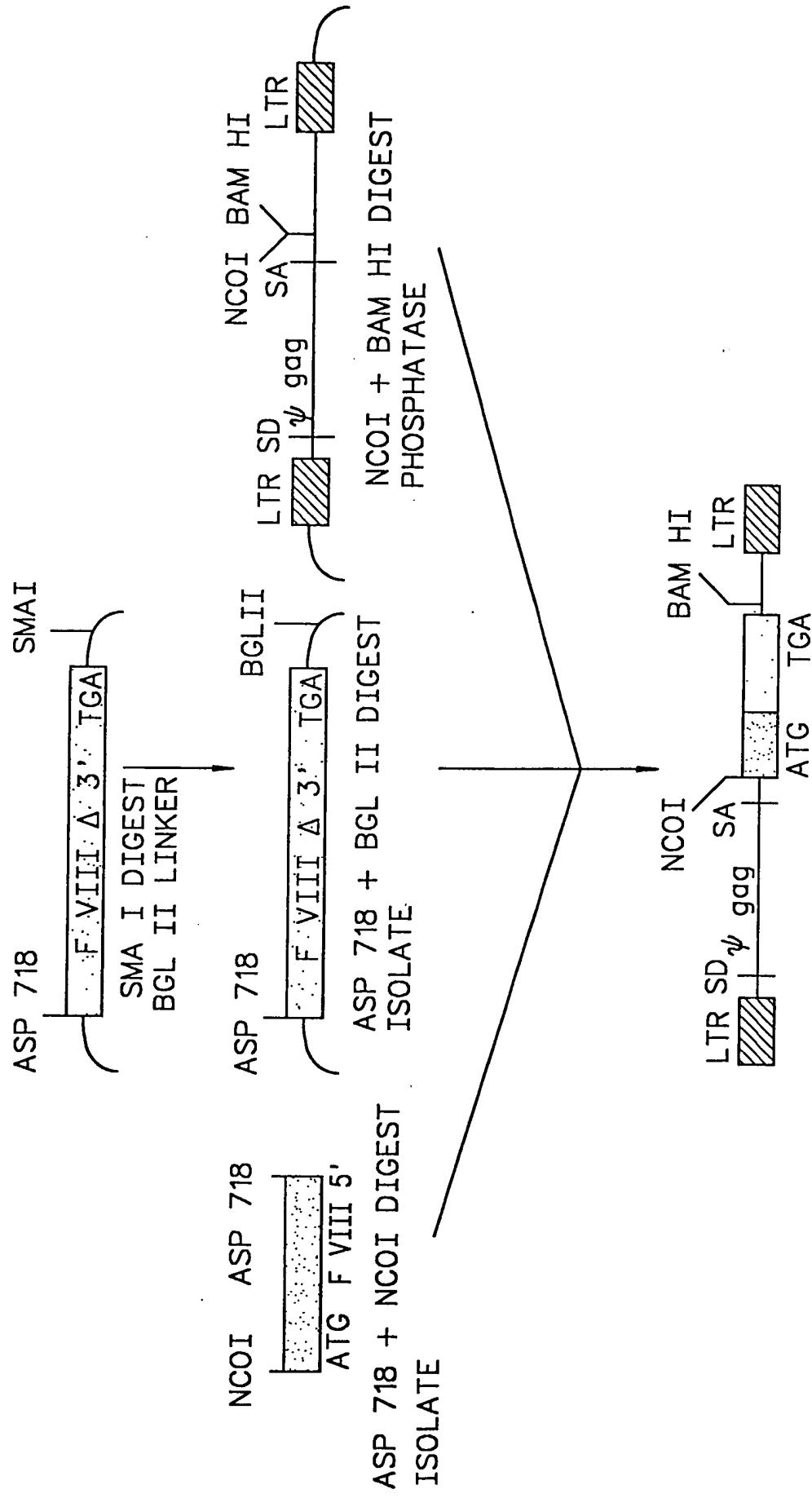


FIG. 7

APPROVED	O.G. FIG.
CLASS	SUBCLASS
BY	
DRAAFTSMAN	



FIG. 8

PROVED	O.G. F.C.
BY	CLASS
WEAFTSMAN	SUBCLASS

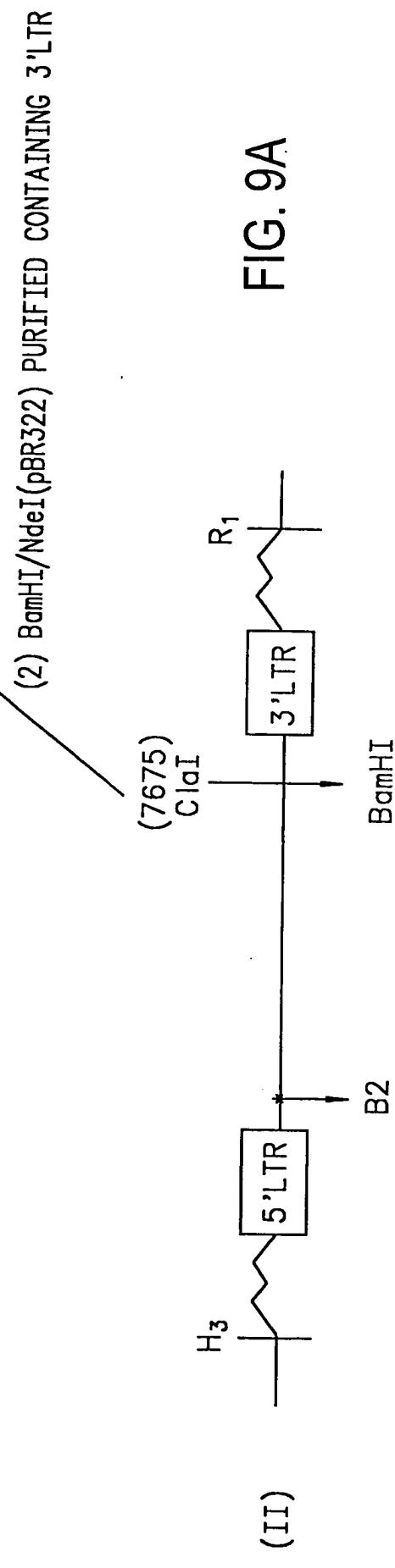
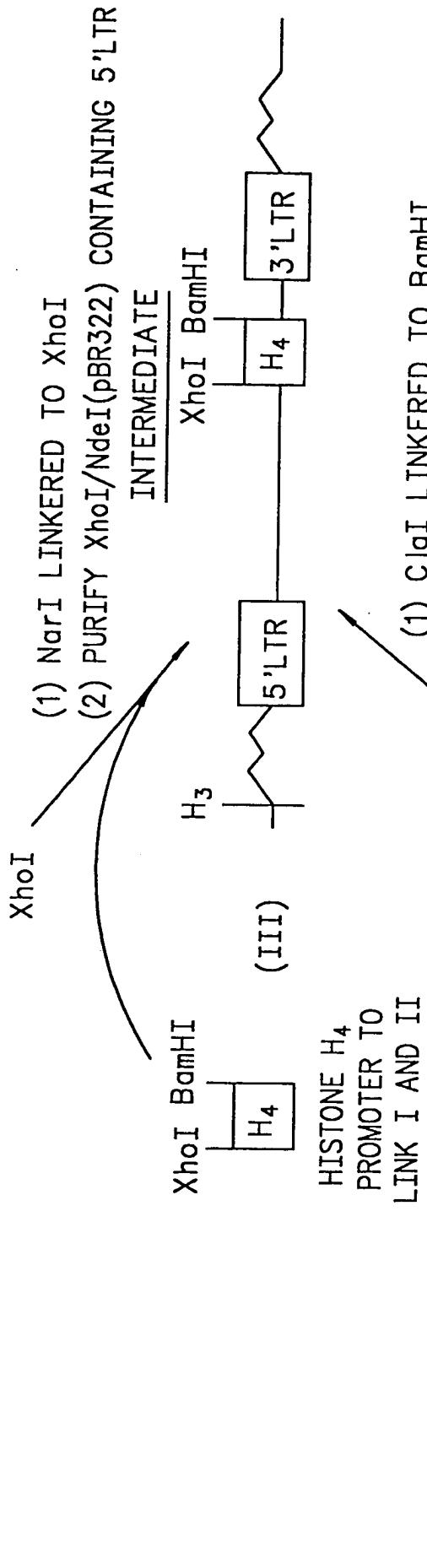
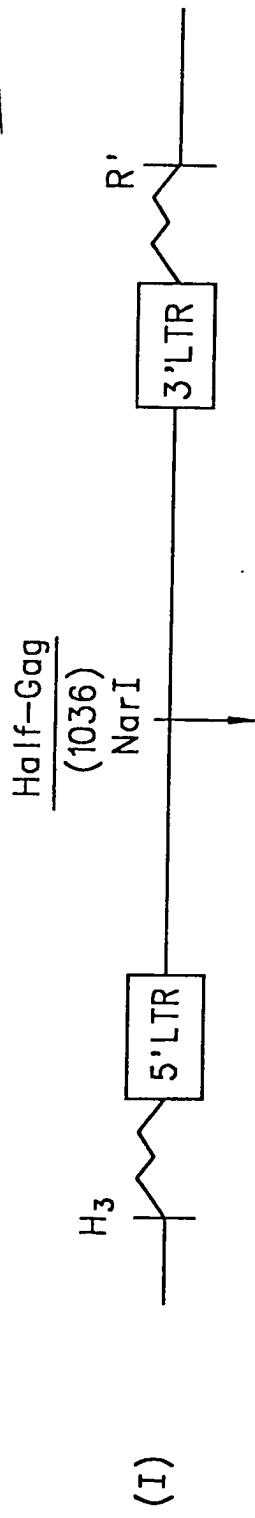
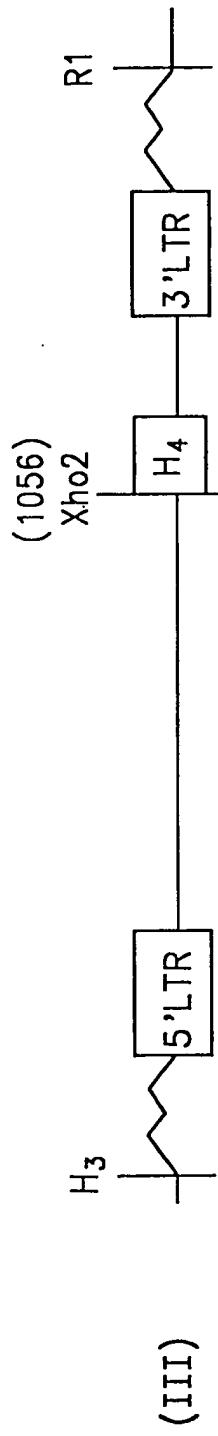


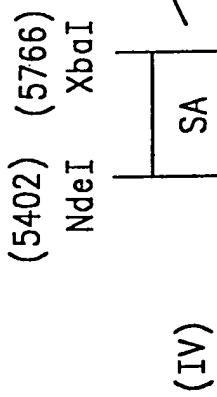
FIG. 9A

APPROVED	O.G. FRIE
CLASS	4/4 CLASS
BY	
DRAFTSMAN	



NdeI

- (1) REMOVE NdeI FROM pBR322
- (2) XhoI LINKERED TO NdeI
- (3) PURIFY NdeI/BamHI BACKBONE FRAGMENT



MOV 9.1

XbaI/BamHI  
oligonucleotide  
(Y) CTAGACTGCCATGGCGCG  
TGACGGTACCGCCCTAG  
(LINKER)

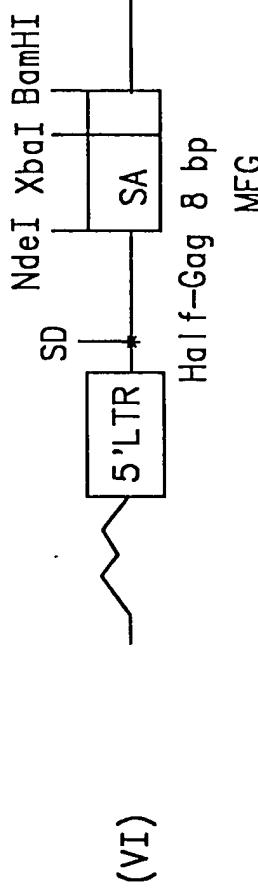
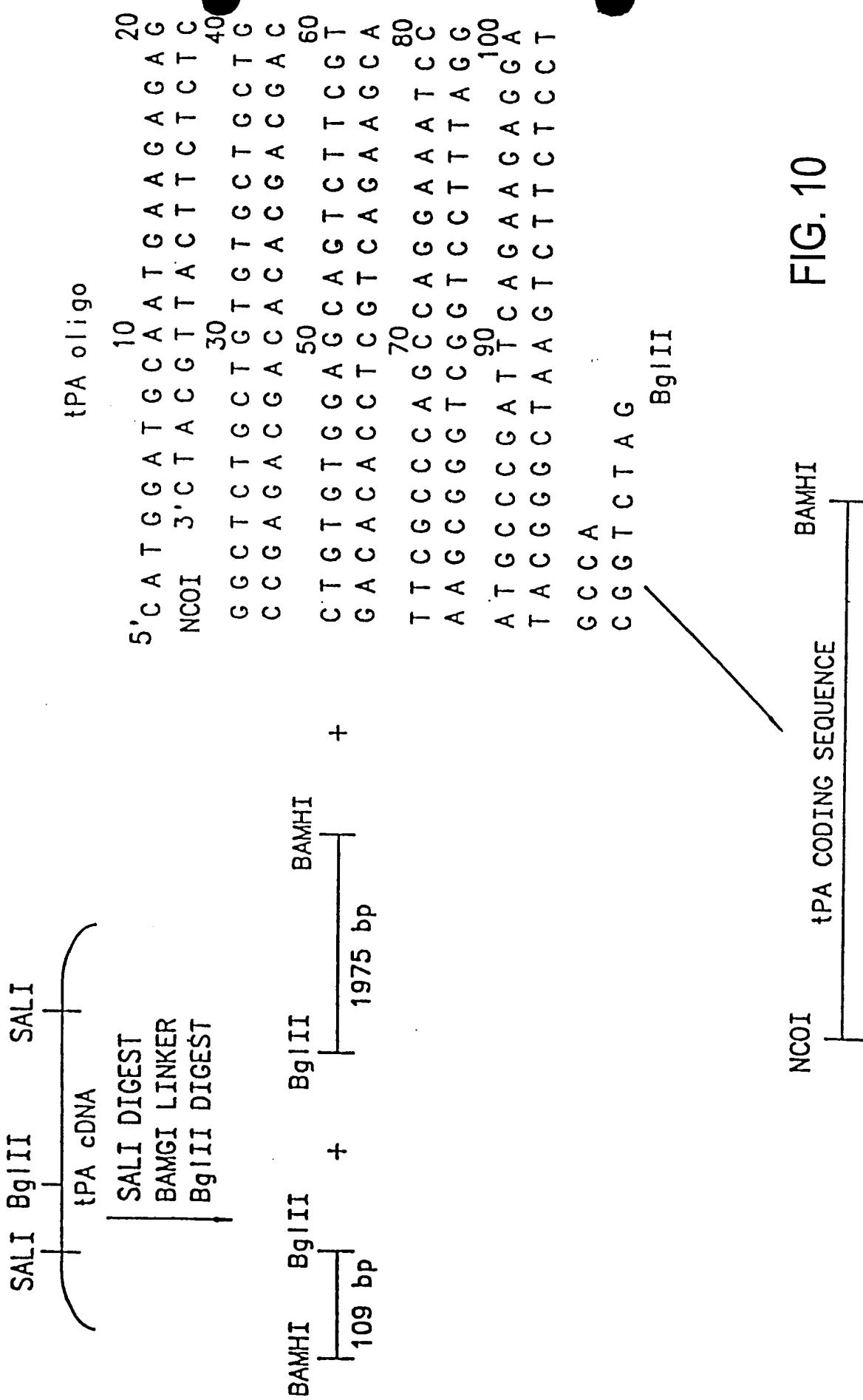


FIG. 9B

SEARCHED	O.G. FIG.
BY	CLASS SUBCLASS
REEDTSMAN	



3. FIG.  
CLASS SUBCLASS

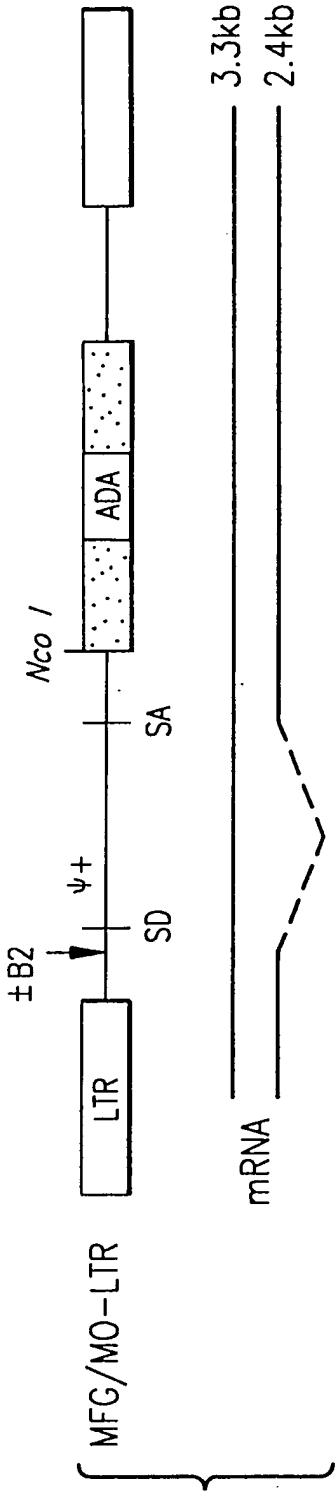


FIG. 11A

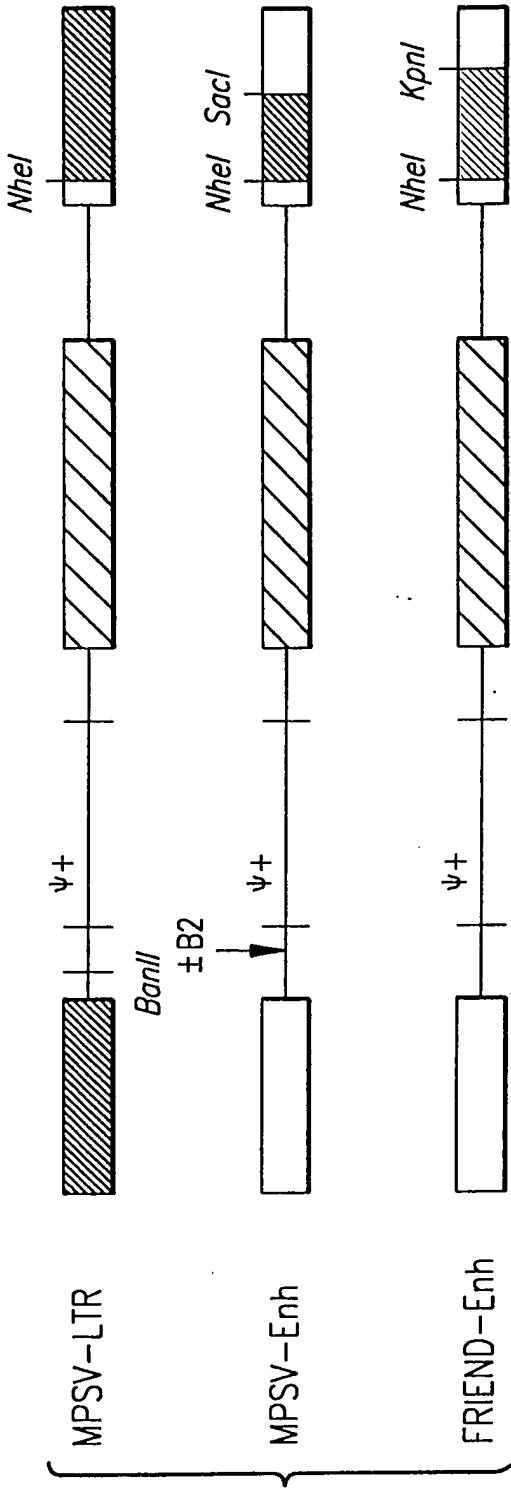


FIG. 11B

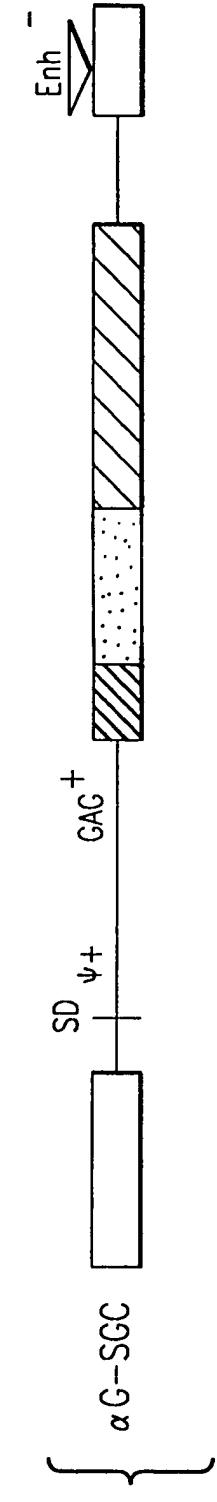


FIG. 11C

		$n_1$	$n_2$	$n_1 + n_2/N$
		$r \geq 1$	$1 \leq r \leq 1/4$	
Mo-LTR 191 DAYS	$3 \times 10^6$ $33 \quad 34 \quad 35 \quad 36 \quad 37$ $38 \quad 39 \quad 40 \quad 41 \quad 42$ $44 \quad 45 \quad 46 \quad 47 \quad 48$	$5 \times 10^5$		
hADA mADA	$4.5 \times 10^6$ $5 \times 10^5$			$14 \quad 1 \quad 15/15$
Mo-LTR/B2 191 DAYS	$54 \quad 55 \quad 56 \quad 57 \quad 58$ $59 \quad 60 \quad 61 \quad 62 \quad 63$ $64 \quad 65 \quad 66 \quad 67 \quad 68$	$5 \times 10^5$		$14 \quad 1 \quad 15/15$
MPSV-Enh 206 DAYS	$90 \quad 91 \quad 92 \quad 93 \quad 94$ $95 \quad 96 \quad 97 \quad 98 \quad 99$ $100 \quad 101 \quad 102 \quad 103 \quad 104$	$5 \times 10^5$	<u>CONTROL</u>	$13 \quad 1 \quad 14/15$
MPSV-Enh/B2 207 DAYS	$2 \times 10^6$ $5 \times 10^5$			
Fr-Enh 184 DAYS	$15 \quad 16 \quad 17 \quad 18 \quad 19$ $20 \quad 21 \quad 22 \quad 23 \quad 24$ $25 \quad 26 \quad 27 \quad 28 \quad 29$	$5 \times 10^5$	<u>CONTROL</u>	$9 \quad 6 \quad 15/15$
MPSV-LTR 177 DAYS	$1.8 \times 10^6$ $5 \times 10^5$	$2.5 \times 10^5$	<u>CONTROL</u>	$11 \quad 2 \quad 13/15$
$\alpha$ G-SGC 170 DAYS	$126 \quad 127 \quad 128 \quad 129 \quad 130$ $131 \quad 132 \quad 133 \quad 134 \quad 135$ $136 \quad 137 \quad 138 \quad 141 \quad 142$ $144 \quad 145 \quad 146$	$2.5 \times 10^5$	<u>CONTROL</u>	$16 \quad 2 \quad 18/18$
	$10^6$ $5 \times 10^5$	$2 \times 10^5$	<u>CONTROL</u>	$0 \quad 4 \quad 4/17$
				$77 \quad 17 \quad 94/110$

FIG. 12A

FIG. 12B

		191	402	191	402	191	402	— DAYS AFTER BMT
Mo-LTR								— hADA
80% (n=3)	#39	0.9	1.0	#40	1.4	0.7	#41	1.0
Mo-LTR/B2		191	424	191	424	191	424	— mADA
82% (n=4)	#54	1.8	1.5	#56	1.8	1.1	#57	1.8
Fr-Enh		184	430	184	430	184	430	— RATIO hADA/mADA
80% (n=4)	#15	1.6	1.3	#16	1.4	0.8	#17	1.2
MPSV-LTR		177	361	177	361	177	ND	177
77% (n=4)	#126	2.2	1.7	#127	2.2	2.0	#129	1.8
αG-SCC		170	420	170	420	170	399	170
59% (n=3)	#117	0.6	0.4	#121	0.05	0.03	#123	ND

FIG. 12C

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DRAFTSMAN	

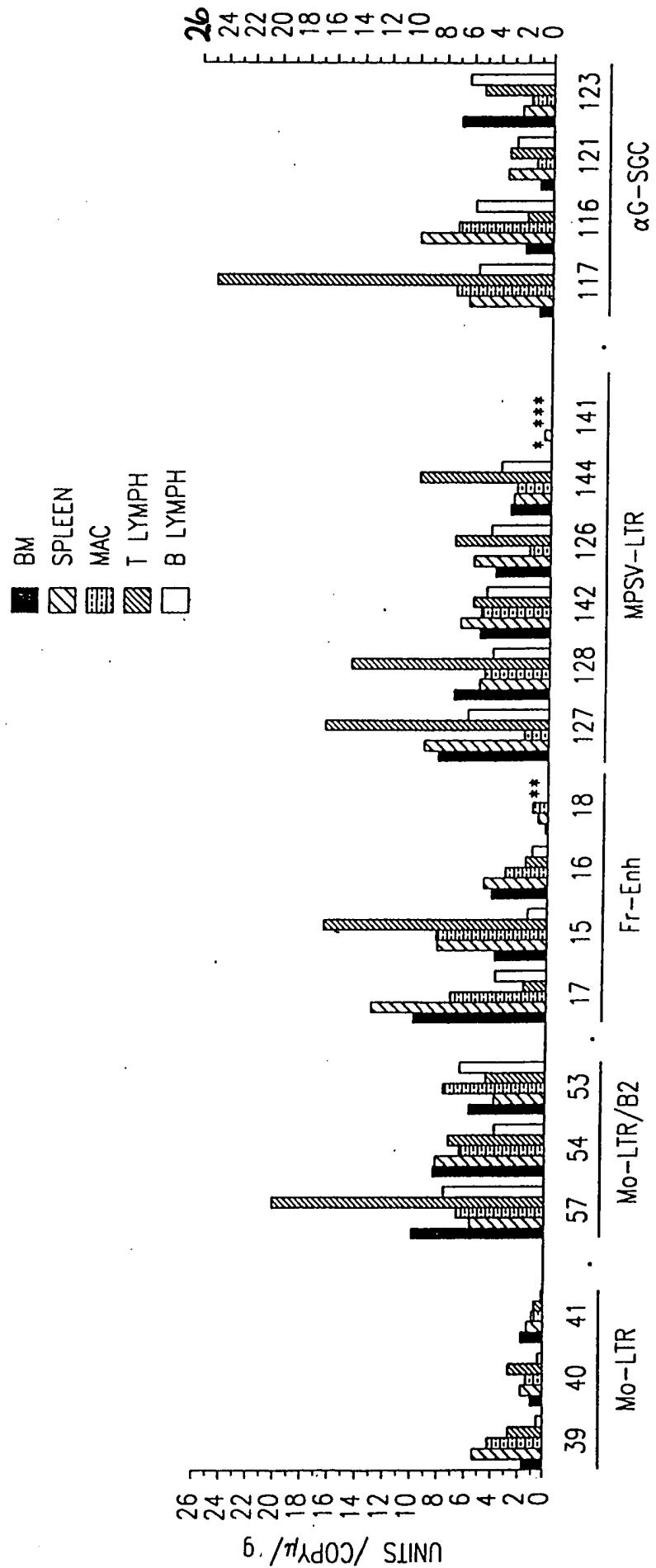


FIG. 13A

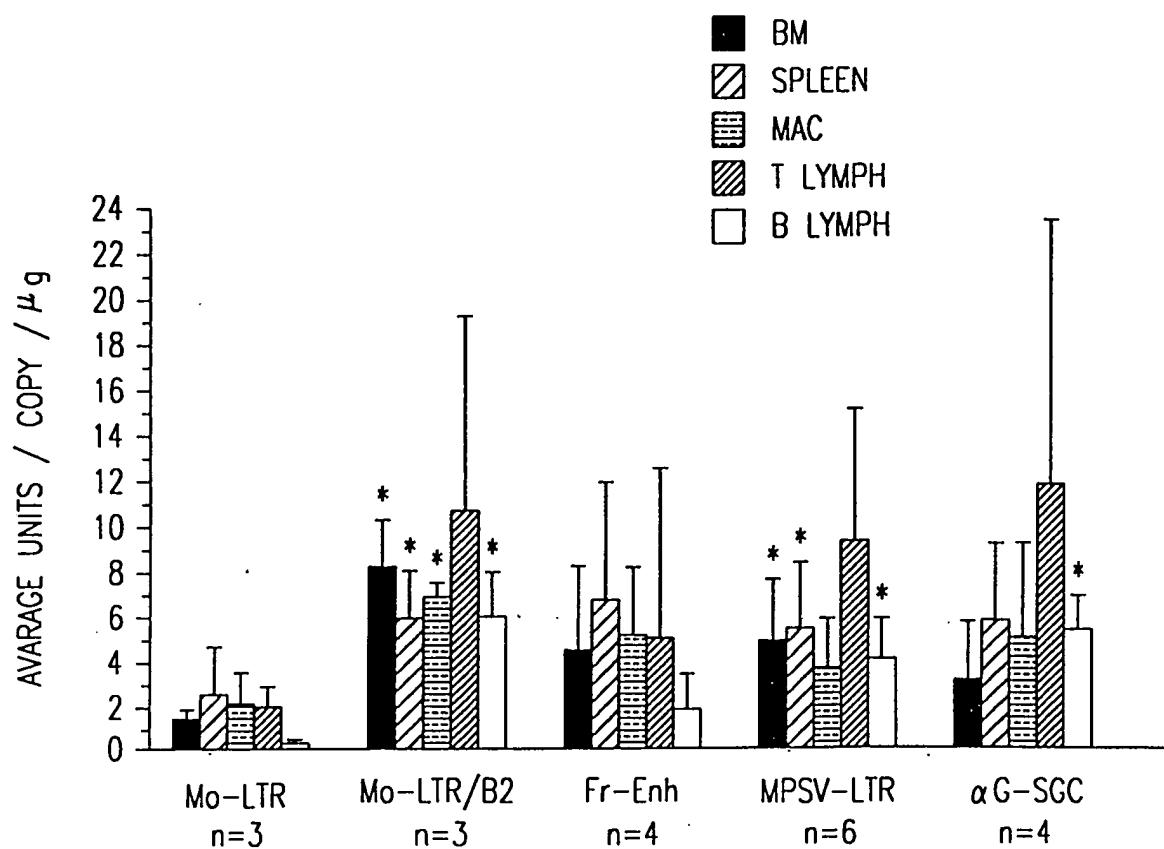
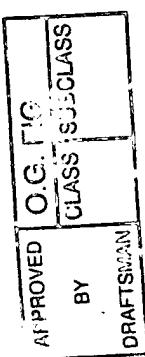


FIG. 13B

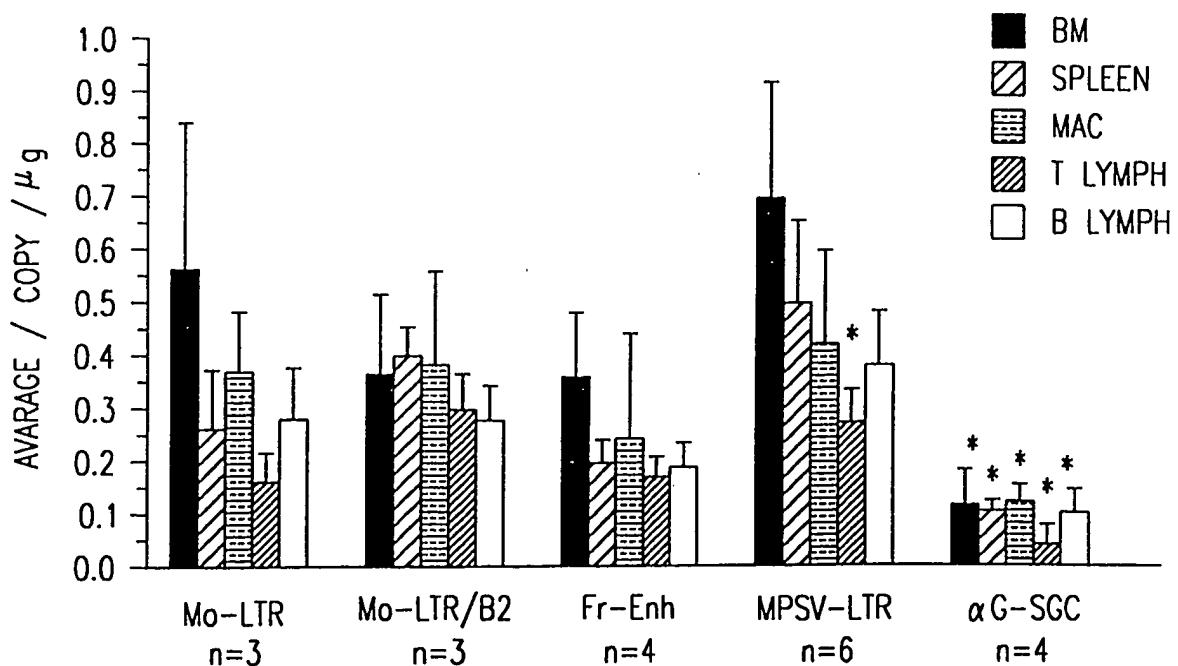


FIG. 13C

O.G. FIG.	CLASS	SUBCLASS
W	CD45	CD45RA

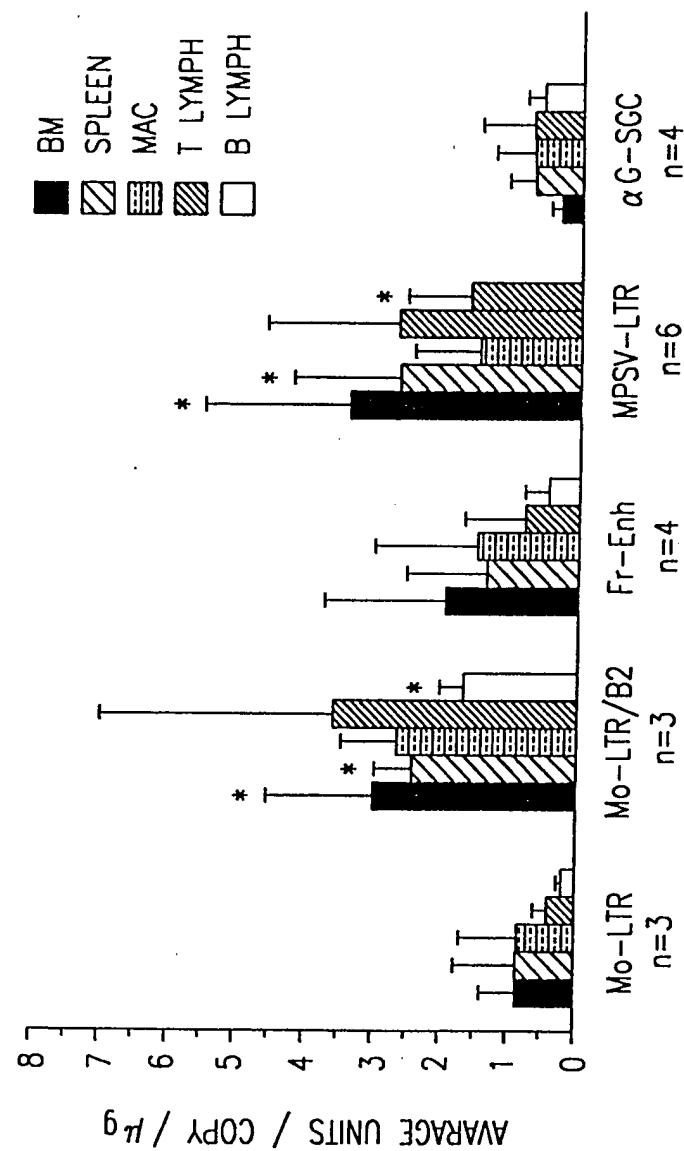


FIG. 13D

O.G. FIG.	
CLASS	SUBCLASS

MoMuLV : GGTGGAACTGACGAGTTGGAACACCCGGCAACCCCTGGGAGACGTCCAGGGACTTGGGGCCGTGGGCCGACCT  
 MFG : XXXXXXXX  
 MFG-S : XXXXXXXX

MoMuLV : GAGTCAAAAATCCCGATCGTTGGACTCTTGGTGCACCCCCCTTAGAGGAGGGATAATGIGGTCTGGTAGGAGACGAGAAC  
 MFG : XXXXXXXX  
 MFG-S : XXXXXXTXXXXXXAXXXXXX

MoMuLV : TAAAAACAGTTCCCGCCTCGTCTGAATTTCGGTTGGGACCGAAGCCGGCGGCTCTGCTGGCAAGCAATG  
 MFG : XXXXXXXX  
 MFG-S : XXXXXXXX

MoMuLV : TCTGTTGTCCTGTCGACTGTTCTGATTGCTGAGAATAATGGG-----CCAGACIGTTACACTCCCT  
 MFG : XXXXXXXX  
 MFG-S : XXXXXXXX

FIG. 14

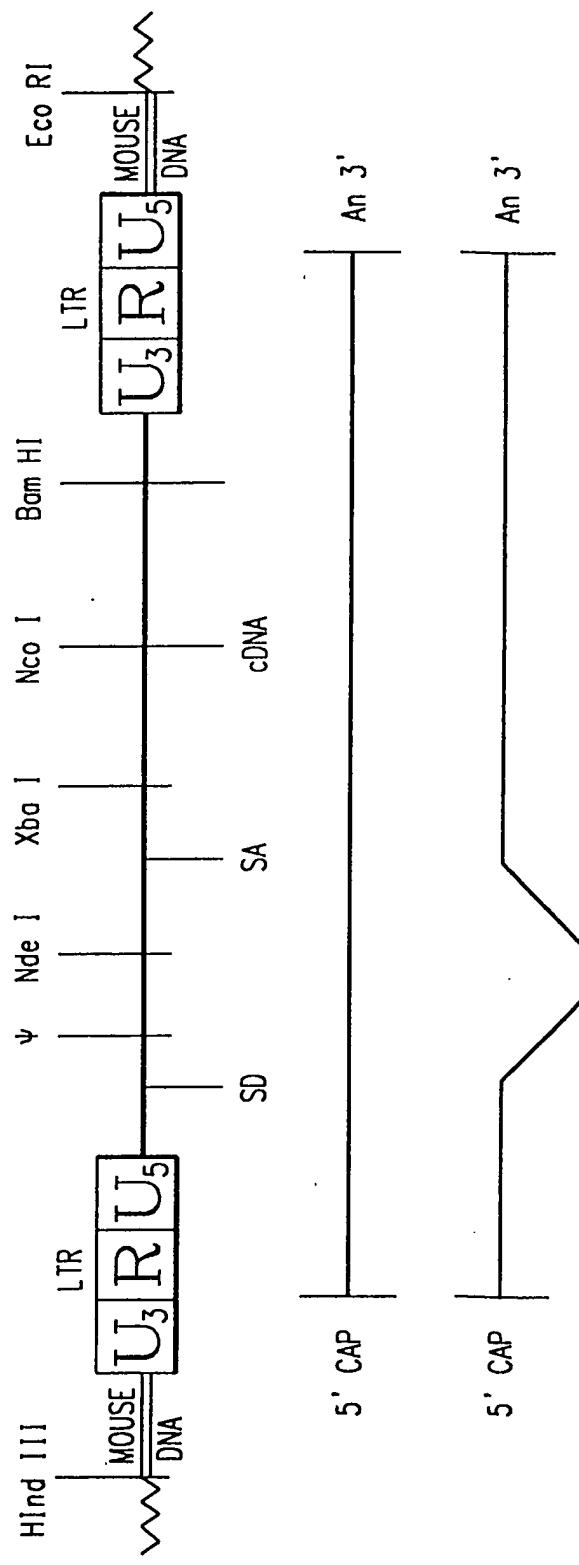


FIG. 15

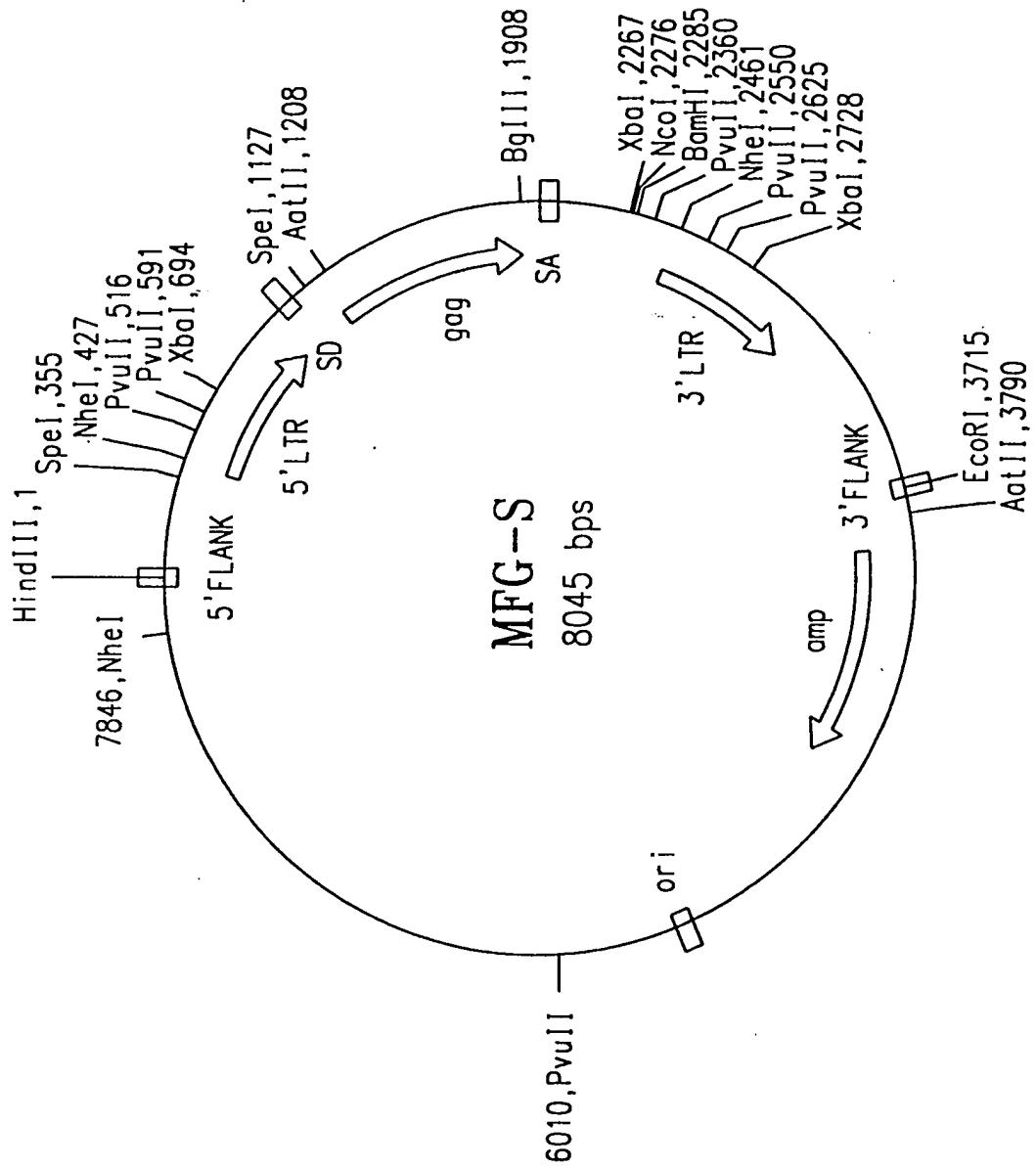


FIG. 16

1 AAGCTTGCT CTTAGGAGTT TCCTAATACA TCCCAAACTC AAATATATAA AGCATTGAC  
TTCGAAACGA GAATCCTCAA AGGATTATGT AGGGTTGAG TTTATATATT TCGTAAACTG

61 TTGTTCTATG CCCTAGGGGG CGGGGGGAAG CTAAGCCAGC TTTTTTAAC ATTTAAAATG  
AACAAAGATAC GGGATCCCCC GCCCCCCCTTC GATTGGTTCG AAAAAAAATTG TAAATTTAC

121 TTAATTCCAT TTTAAATGCA CAGATGTTT TATTCATAA CGGTTCAAT GTGCATGAAT  
AATTAAGGTA AAATTTACGT GTCTACAAAA ATAAGTATT CCCAAACTTA CACGTACTTA

181 GCTGCAATAT TCCTGTTACC AAAGCTAGTA TAAATAAAA TAGATAAACG TGGAAATTAC  
CGACGTTATA AGGACAATGG TTTGATCAT ATTTATTTT ATCTATTTGC ACCTTTAATG

241 TTAGAGTTTC TGTCTTAAC GTTTCCTTCC TCAGTTGACA ACATAAATGC GCTGCTGAGC  
AATCTCAAAG ACAGTAATTG CAAAGGAAGG AGTCAACTGT TGTATTTACG CGACGACTCG

301 AAGCCAGTTT GCATCTGTCA GGATCAATT CCCATTATGC CAGTCATATT AATTACTAGT  
TTCGGTCAAA CGTAGACAGT CCTAGTTAA GCGTAATACG GTCAGTATAA TTAATGATCA

361 CAATTAGTTG ATTTTATTT TTGACATATA CATGTGAATG AAAGACCCCA CCTGTAGGTT  
GTTAATCAAC TAAAAATAAA AACTGTATAT GTACACTTAC TTTCTGGGT GGACATCCAA

421 TGGCAAGCTA GCTTAAGTAA CGCCATTTCG CAAGGCATGG AAAAATACAT AACTGAGAAT  
ACCGTTCGAT CGAATTTCATT GCGTAAAAC GTTCCGTACC TTTTATGTA TTGACTCTTA

481 AGAAAAGTTC AGATCAAGGT CAGGAACAGA TGGAACAGCT GAATATGGGC CAAACAGGAT  
TCTTTCAAG TCTAGTTCCA GTCCTGTCT ACCTTGTCA CTTATACCCG GTTGTCTTA

541 ATCTGTGGTA AGCAGTTCTT GCCCCGGCTC AGGGCCAAGA ACAGATGGAA CAGCTGAATA  
TAGACACCAT TCGTCAAGGA CGGGGCCAG TCCCGTTCT TGTCTACCTT GTGACTTTAT

601 TGGGCCAAC AGGATATCTG TGGTAAGCAG TTCTGCCCCC GGCTCAGGGC CAAGAACAGA  
ACCCGGTTG TCCTATAGAC ACCATTGTC AAGGACGGGG CCGACTCCCG GTTCTGTCT

661 TGGTCCCCAG ATGGGGTCCA CCCCTCAGCA GTTCTAGAG ACCATCAGA TGTTCCAGG  
ACCAGGGGTC TACGCCAGGT CGGGAGTCGT CAAAGATCTC TTGGTAGTCT ACAAAAGGTCC

721 GTGCCCAAG GACCTGAAAT GACCTGTGC CTTATTGAA CTAACCAATC AGTCGCTTC  
CACGGGGTTC CTGGACTTTA CTGGGACACG GAATAAACTT GATTGGTTAG TCAAGCGAAG

781 TCGCTTCTGT TCGCGCGCTT CTGCTCCCCG AGCTCAATAA AAGAGCCCAC AACCCCTCAC  
ACCGAAGACA AGCGCGCGAA GACGAGGGGC TCGAGTTATT TTCTCGGGTG TTGGGGAGTG

FIG. 17A



841 TCGGGGGCGCC AGTCCTCCGA TTGACTGAGT CGCCCGGGTA CCCGTGTATC CAATAAACCC  
AGCCCCCGGG TCAGGAGGCT AACTGACTCA GCGGGCCAT GGGCACATAG GTTATTGGG

901 TCTTGCAGTT GCATCCGACT TGTGGTCTCG CTGTTCCCTG GGAGGGTCTC CTCTGAGTGA  
AGAACGTCAA CGTAGGCTGA ACACCAGAGC GACAAGGAAC CCTCCCAGAG GAGACTCACT

961 TTGACTACCC GTCAGGGGG GTCTTCATT TGGGGGCTCC TCCGGATCC GGAGACCCCT  
AACTGATGGG CAGTCGCCCC CAGAAAGTAA ACCCCCAGGC AGGCCCTAGC CCTCTGGGA

1021 GCCCAGGGAC CACCGACCCA CCACCGGGAG GTAAGCTGGC CAGCAACTTA TCTGTGTCTG  
CGGGTCCCTG GTGGCTGGGT GGTGGCCCTC CATTGACCG GTCTTGAAT AGACACAGAC

1081 TCCGATTGTC TAGTGTCTAT GACTGATTT ATGCCCTCC GTCGGTACTA GTTAGCTAAC  
AGGCTAACAG ATCACAGATA CTCACTAAAA TACGCCGACG CAGCCATGAT CAATCGATTG

1141 TAGCTCTGTA TCTGGCGGAC CCGTGGTGGA ACTGACGAGT TCGAACACCC CGGGCCGAAAC  
ATCGAGACAT AGACCGCCTG GGCACCCACCT TGACTGCTCA AGCCTTGTGG GCCGGCGTTG

1201 CCTGGGAGAC GTCCCAGGGA CTTGGGGGC CGTTTTGTG GCCCGACCTG AGTCCTAAAA  
GGACCCCTCTG CAGGGTCCCT GAAGCCCCCG GCAAAAACAC CGGGCTGGAC TCAGGATTT

1261 TCCCGATCGT TTAGGACTCT TTGGTGCACC CCCCTAGAG GAGGGATATG TGGTTCTGGT  
AGGGCTAGCA AATCCTGAGA AACCACGTGG GGGGAATCTC CTCCCTATAC ACCAAGACCA

1321 AGGAGACGAG AACCTAAAAC ACTTCCCGCC TCCGTCTGAA TTTTGCTTT CGGTTGGGA  
TCCTCTGCTC TTGGATTTG TCAAGGGCGG AGGCAGACTT AAAAACGAAA CCCAAACCCCT

1381 CCGAAGCCGC GCCGCCGCTC TTGTCTGCTG CAGCATCGTT CTGTGTTGTC TCTGTCTGAC  
GGCTTGGCG CGGCCGCCAG AACAGACGAC GTCGTAGCAA GACACAACAG AGACAGACTG

1441 TGTGTTCTG TATTGTCTG AAAATATGGG CCCGGCTAG ACTGTTACCA CTCCCTAAC  
ACACAAAGAC ATAAACAGAC TTTTATACCC GGGCCCGATC TGACAATGGT GAGGGATTG

1501 TTTGACCTTA GCTCACTGGA AAGATGTGGA GCGGATCGCT CACAACCAGT CGGTAGATGT  
AAACTGGAAT CCAGTGACCT TTCTACAGCT CGCCTAGCGA GTGTTGGTCA GCCATCTACA

1561 CAAGAACAGA CGTGGGTTA CCTTCTGCTC TGCAGAATGG CCAACCTTA ACGTCGGATG  
GTTCTTCTCT GCAACCCAAT GGAAGACGAG ACGTCTTACC GTTGGAAAT TGCAGCCTAC

FIG. 17B



1621 GCCGGGAGAC GGCACCTTA ACCGAGACCT CATCACCCAG GTTAAGATCA AGGTCTTTC  
CGGCGCTCTG CCGTGGAAAT TGGCTCTGGA GTAGTGGTC CAATTCTAGT TCCAGAAAAG

1681 ACCTGGCCCG CATGGACACC CAGACCAGGT CCCCTACATC GTGACCTGGG AAGCCTGGC  
TGGACCGGGC GTACCTGTGG GTCTGGTCCA GGGGATGTAG CACTGGACCC TTCGGAACCG

1741 TTTGACCCCC CCTCCCTGGG TCAAGCCCTT TGTACACCTT AAGCCTCCG CTCCTCTCC  
AAAAGTGGGG GGAGGGACCC AGTTGGGAA ACATGTGGGA TTCGGAGGCG GAGGAGAAGG

1801 TCCATCCGCC CCGTCTCTCC CCCTTGAACC TCCTCGTTCG ACCCCGCCCTC GATCCTCCCT  
AGGTAGGCCG GCCAGAGAGG GGGAACTTGG AGGAGCAACC TGGGGCCGAG CTAGGAGGGA

1861 TTATCCAGCC CTCACTCCTT CTCTAGGCCG CCCCATATGG CCATATGAGA TCTTATATGG  
AATAGTCGG GACTGAGGAA GAGATCCCGC GGGGTATAACC GGTATACTCT AGAATATAACC

1921 GGCACCCCCG CCCCTTGAA ACTTCCCTGA CCCTGACATG ACAAGAGTTA CTAACAGCCC  
CCGTGGGGC GGGGAACATT TGAAGGGACT GGGACTGTAC TGTCTCAAT GATTGTCGGG

1981 CTCTCTCAA GCTCACTTAC AGGCTCTCTA CTTAGTCCAG CACGAAGTCT GGAGACCTCT  
GAGAGAGGTT CGACTGAATG TCCGAGAGAT GAATCAGGTC GTGCTTCAGA CCTCTGGAGA

2041 GGCAGGAGCC TACCAAGAAC AACTGGACCG ACCGGTGGTA CCTCACCCCTT ACCGAGTCGG  
CCGCCGTCCG ATGCTTCTTC TTGACCTGGC TGGCCACCAT GGACTGGAA TGGCTCAGCC

2101 CGACACAGTC TGGGTCCGCC GACACCAGAC TAAGAACCTA GAACCTCGCT GGAAAGGACC  
GCTGTGTCAC ACCCAGGCGG CTGTGGTCTG ATTCTGGAT CTTGGAGCGA CCTTCCTGG

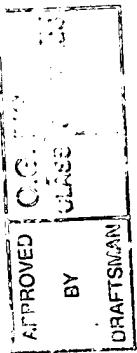
2161 TTACACAGTC CTGCTGACCA CCCCCACCGC CCTCAAAGTA GACGGCATCG CAGCTGGAT  
AATGTGTCAG GACGACTGGT GGGGGTGGCG GGAGTTCAT CTGCCGTAGC GTCGAACCTA

2221 ACACGCCGCC CACGTGAAGG CTGCCGACCC CGGGGGTGGA CCATCCTCTA GACTGCCATG  
TGTGCGGCCG GTGCACTTCC GACGGCTGGG GCCCCCACCT GGTAGGAGAT CTGACGGTAC

2281 GCGCGGATCC GGATTAGTCC AATTGTTAA AGACAGGATA TCAGTGGTCC AGGCTCTAGT  
CGCGCCTAGG CCTAATCAGG TTAAACAATT TCTGTCCTAT AGTCACCAGG TCCGAGATCA

2341 TTTGACTCAA CAATATCACC AGCTGAAGCC TATAGAGTAC GAGCCATAGA TAAAATAAAA  
AAACTGAGTT GTTATAGTGG TCGACTTCGG ATATCTCATG CTCGGTATCT ATTTTATTTT

FIG. 17C



2401 GATTTATT AGTCTCCAGA AAAAGGGGG AATGAAAGAC CCCACCTGTA GGTTGGCAA  
CTAAAATAAA TCAGAGGTCT TTTCCCCCC TTACTTCTG GGGTGGACAT CCAAACCGTT

2461 GCTAGCTAA GAAACGCCAT TTTGCAAGGC ATGGAAAAT ACATAACTGA GAATAGAGAA  
CGATCGAATT CATTGGGTA AAACGTTCCG TACCTTTA TGTATTGACT CTTATCTCTT

2521 GTTCAGATCA AGCTCAGGAA CAGATGGAAC AGCTGAATAT GGGCCAAACA GGATATCTGT  
CAAGTCTAGT TCCAGTCCTT GTCTACCTTG TCGACTTATA CCCGGTTGT CCTATAGACA

2581 CGTAAGCAGT TCCTGCCCG GCTCAGGGCC AAGAACAGAT GGAACAGCTG AATATGGGC  
CCATTCGTCA AGGACGGGGC CGAGTCCCGG TTCTTGTCTA CCTTGTGAC TTATACCCGG

2641 AAACAGGATA TCTGTGGTAA GCAGTTCCTG CCCCCGCTCA GGGCCAAGAA CAGATGGTCC  
TTTGTCTAT AGACACCATT CGTCAAGGAC GGGCCCGACT CCCGGTTCTT GTCTACCAGG

2701 CCAGATGCCG TCCAGCCCTC AGCAGTTCT AGAGAACCAT CAGATGTTTC CAGGGTGC  
GGTCTACGCC AGGTCGGGAG TCGTCAAAGA TCTCTTGGTA GTCTACAAAG GTCCCACGGG

2761 CAAGGACCTG AAATGACCCCT GTGCCTTATT TGAACTAACC AATCAGTTG CTTCTCGCTT  
GTTCTGGAC TTTACTGGGA CACGGAATAA ACTTGATTGG TTACTCAAGC GAAGAGCGAA

2821 CTGTTCCGGC GCTTCTGCTC CCCGAGCTA ATAAAAGAGC CCACAACCCC TCACTCGGG  
GACAAGCGCG CGAAGACGAG GGGCTCGAGT TATTTCTCG GGTGTTGGGG AGTGAGCCCC

2881 CGCCAGTCCT CCGATTGACT GAGTCGCCCCG GGTACCCGTG TATCCAATAA ACCCTCTTG  
GCGGTCAGGA GGCTAACTGA CTCAGGGGC CCATGGCAC ATAGTTATT TGGGAGAACG

2941 ACTTGCATCC GACTTGTGGT CTCGCTGTT CTTGGAGGG TCTCCTCTGA GTGATTGACT  
TCAACGTAGG CTGAACACCA GAGCGACAAG GAACCCTCCC AGAGGAGACT CACTAATG

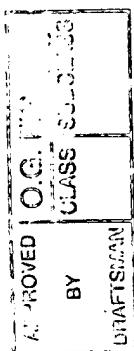
3001 ACCCGTCAGC GGGGTCTTT CACACATGCA GCATGTATCA AAATTAATTG GGTTTTTTT  
TGGGCAGTCG CCCCCAGAAA GTGTGTACGT CGTACATAGT TTAATTAAA CCAAAAAAAA

3061 CTTAAGTATT TACATTAAAT GCCCATACTA CTTAAAGTTA CATTGGCTTC CTTGAAATAA  
GAATTCTAA ATGTAATTG CCGGTATCAT GAATTCAAT GTAACCGAAG GAACTTTATT

3121 ACATGGAGTA TTCAGAATGT GTCATAAATA TTTCTAATT TAAGATAGTA TCTCCATTGG  
TGTACCTCAT AAGTCTTACA CAGTATTAT AAAGATTAAA ATTCTATCAT AGAGGTAACC

3181 CTTTCTACTT TTTCTTTAT TTTTTTTGT CCTCTGTCTT CCATTGTTG TTGTTGTG  
GAAAGATGAA AAAGAAAATA AAAAAAAACA GGAGACAGAA GGTAAACAAC AACAAACAACA

FIG. 17D



3241 TTGTTGTT GTTGTTGGT TGGTGGTTA ATTTTTTTT AAAGATCCTA CACTATAGTT  
ACAAACAAA CAAACAACCA ACCAACCAAT TAAAAAAA TTTCTAGGAT GTGATATCAA

3301 CAAGCTAGAC TATTAGCTAC TCTGTAACCC AGGGTACCT TGAAGTCATG GGTAGCCTGC  
GTTCGATCTG ATAATCGATG AGACATTGGG TCCCACGTGG ACTTCAGTAC CCATCGGACG

3361 TGTTTAGCC TTCCCACATC TAAGATTACA GGTATGAGCT ATCATTTCG CTATATTGAT  
ACAAAATCGG AAGGGTGTAG ATTCTAATGT CCATACTCGA TAGTAAAAC CATATAACTA

3421 TGATTGATTG ATTGATGTGT GTGTGTGTGA TTGTGTTGT GTGTGTGANT GTGWNATGT  
ACTAACTAAC TAACACACA CACACACACT AACACAAACA CACACACTNA CACWTNTACA

3481 GTGTATGGNT GTGTGTGAKT GTGTGTATGT ATGNYTGTGT GTGANTGYGT GTGTGTGANT  
CACATACCNA CACACACTMA CACACATACA TACNRACACA CACTNACRCA CACACACTNA

3541 GTGCATGTGT GTGTGTGTGA CTGTGTCTAT GTGTATGACT GTGTGTGTGT GTGTGTGT  
CACGTACACA CACACACACT GACACAGATA CACATACTGA CACACACACA CACACACACA

3601 GTGTGTGTGT GTGTGTGTGT GTGTGTTGTG AAAAAATATT CTATGGTAGT GAGAGCCAAC  
CACACACACA CACACACACA CACACAACAC TTTTTATAA GATACCATCA CTCTCGGTTG

3661 GCTCCGGCTC AGGTGTCAGG TTGGTTTTG AGACAGAGTC TTTCACTTAG CTTGGAATTG  
CGAGGCCGAG TCCACAGTCC AACCAAAAAC TCTGTCTAG AAAGTGAATC GAACCTTAAG

3721 TTGAAGACGA AACGGCCTCG TGATACCCCT ATTTTATAG GTTAATGTCA TGATAATAAT  
AACTTCTGCT TTCCCGGAGC ACTATGCCGA TAAAAATATC CAATTACAGT ACTATTATTA

3781 GGTTCTTAG ACGTCAGGTG GCACTTTCG GGGAAATGTG CGCCGAACCC CTATTGTT  
CCAAAGAATC TCCAGTCCAC CGTAAAAGC CCCTTACAC GCGCCTTGGG GATAAACAAA

3841 ATTTTCTAA ATACATTCAA ATATGTATCC GCTCATGAGA CAATAACCCCT GATAATGCT  
TAAAAAGATT TATGTAAGTT TATACATAGG CGAGTACTCT GTTATTGGGA CTATTACGA

3901 TCAATAATAT TGAAAAAGGA AGAGTATGAG TATTCAACAT TTCCGTGTGCG CCCTTATTCC  
AGTTATTATA ACTTTTCCT TCTCATACTC ATAAGTTGA AAGGCACAGC GGGAAATAAGG

3961 CTTTTTCCG GCATTTGCC TTCCTGTTT TGCTCACCCA GAAACGCTGG TGAAAGTAAA  
GAAAAAACCG CGTAAAACCG AAGGACAAAA ACGAGTGGGT CTTTGGGACCC ACTTCATT

4021 AGATGCTGAA GATCAGTTGG GTGCACGAGT GGGTTACATC GAACTGGATC TCAACACCGG  
TCTACGACTT CTAGTCACC CACGTGCTCA CCCAATGTAG CTTGACCTAG AGTTGTGCGC

FIG. 17E

4081 TAAGATCCTT GAGAGTTTC GCCCCGAAGA ACGTTTCCA ATGATGAGCA CTTTAAAGT  
ATTCTAGGAA CTCTAAAG CGGGCTTCT TGCAGAAAGGT TACTACTCGT GAAAATTCA

4141 TCTGCTATGT GGCGCGGTAT TATCCCGTGT TGACGCCGGG CAAGAGCAAC TCGGTCGCCG  
AGACGATACA CGCGGCCATA ATAGGGCACA ACTGCGGCCG GTTCTCGTTG AGCCAGCGGC

4201 CATAACTAT TCTCAGAATG ACTTGGTTGA GTACTCACCA GTCACAGAAA AGCATCTTAC  
GTATGTGATA AGAGTCTTAC TGAACCAACT CATGAGTGCT CAGTGTCTT TCGTAGAATG

4261 GGATGGCATG ACAGTAAGAG AATTATGCCAG TGCTGCCATA ACCATGAGTG ATAACACTGC  
CCTACCGTAC TGTCTTCTC TTAATACGTC ACGACGGTAT TCGTACTCAC TATTGTGACC

4321 GGCCAACTTA CTTCTGACAA CGATCGGAGG ACCGAAGGAG CTAACCGCTT TTTGCACAA  
CCGGTTGAAT GAAGACTGTT GCTAGCCTCC TGGCTCCTC GATTGGCGAA AAAACGTGTT

4381 CATGGGGAT CATGTAACTC GCCTTGATCG TTGGAAACCG GAGCTGAATG AAGCCATACC  
GTACCCCCCTA GTACATTGAG CGGAACCTAGC AACCCCTGGC CTCGACTTAC TTCGGTATGG

4441 AAACGACGAG CGTGACACCA CGATGCCCTGC AGCAATGGCA ACAACGTTGC GCAAACATT  
TTGCTGCTC GCACTGTGGT GCTACGGACG TCGTTACCGT TGTGCAACC CGTTGATAA

4501 AACTGGCGAA CTACTTACTC TAGCTTCCCG GCAACAATTA ATAGACTGGA TGGAGGCCGA  
TTGACCGCTT GATGAATGAG ATCGAAGGGC CGTTGTTAAT TATCTGACCT ACCTCCGCCT

4561 TAAAGTTGCA GGACCACCTTC TGGCCTCGGC CCTTCCGGCT GGCTGGTTA TTGCTGATAA  
ATTCAACGT CCTGGTGAAG ACGCGAGCCG GGAAGGCCGA CCGACCAAAT AACGACTATT

4621 ATCTGGAGCC GGTGAGCGTG GGTCTCGCGG TATCATTGCA GCACTGGGGC CAGATGGTAA  
TAGACCTCGG CCACTCGCAC CCAGAGCGCC ATAGTAACGT CGTGACCCCG GTCTACCATT

4681 GCCCTCCCGT ATCGTAGTTA TCTACACGAC GGGGAGTCAG GCAACTATGG ATGAACGAAA  
CGGGAGGGCA TAGCATCAAT AGATGTGCTG CCCCTCAGTC CGTTGATACC TACTTGCTT

4741 TAGACAGATC GCTGAGATAG GTGCCTCACT GATTAAGCAT TGGTAACTGT CAGACCAAGT  
ATCTGTCTAG CGACTCTATC CACGGAGTGA CTAATTGCTA ACCATTGACA GTCTGGTTCA

FIG. 17F



4801 TTACTCATAT ATACTTTAGA TTGATTAAA ACTTCATTT TAATTTAAA GGATCTAGGT  
AATGAGTATA TATGAAATCT AACTAAATT AGAAGTAAAA ATAAATTT CCTAGATCCA  
4861 GAAGATCCTT TTTGATAATC TCATGACCAA AATCCCTAA CGTGAGTTT CGTTCCACTG  
CTTCTAGGAA AACTATTAG AGTACTGGTT TTAGGAATT GCACTCAAAA GCAAGGTGAC  
4921 AGCGTCAGAC CCCGTAGAAA AGATCAAAGG ATCTTCTTGA GATCCTTTT TTCTGGCGT  
TCGCAGTCTG GGGCATCTTT TCTAGTTCC TAGAAGAACT CTAGGAAAAA AAGACCCCCA  
4981 AATCTGCTGC TTGCAAACAA AAAAACCAACC GCTACCAGCG GTGGTTGTT TGCCGGATCA  
TTAGACGACG AACGTTGTT TTTTGGTGG CGATGGTCGC CACCAAACAA ACGGCCTAGT  
5041 AGAGCTACCA ACTCTTTTC CGAAGGTAAC TGGCTTCAGC AGACGGCAGA TACCAAATAC  
TCTCGATGGT TGACAAAAAC GCTTCATTG ACCGAAGTCC TCTCCGCT ATGGTTATG  
5101 TGTCTTCTA GTCTAGCCGT AGTTAGGCCA CCACTTCAAG AACTCTGTAG CACCGCCTAC  
ACAGGAAGAT CACATCGGCA TCAATCCGGT GGTGAAGTTC TTGAGACATC GTGGCGGATG  
5161 ATACCTCGCT CTGCTAATCC TGTTACCAAGT GGCTGCTGCC AGTGGCGATA AGTCGTGTCT  
TATGGAGCGA GACGATTAGG ACAATGGTCA CCGACGACGG TCACCGCTAT TCAGCACAGA  
5221 TACCGGGTTG GACTCAAGAC GATACTTACCG GGATAAGGGCG CAGCGGTCGG GCTGAACGGG  
ATGGCCCAAC CTGAGTTCTG CTATCAATGG CCTATTCCGC GTCCCGAGCC CGACTTGCCCC  
5281 GGGTTCGTGC ACACAGCCCA GCTTGAGGCC AACGACCTAC ACCGAACTGA GATACTACA  
CCCAAGCACG TGTGTCGGGT CGAACCTCGC TTGCTGGATC TGGCTTGACT CTATGGATGT  
5341 GCGTGACCTA TGAGAAAGCC CCACGCTTCC CGAAGGGAGA AAGGCGGACA GGTATCCGGT  
CCCACTCGAT ACTCTTCGC CGTGCAGAGG GCTTCCCTCT TTCCGCGTGT CCATAGGCCA  
5401 AAGCGGCAGG GTCGGAACAG GAGAGCCAC GAGGGAGCTT CCAGGGGGAA ACGCCTGGTA  
TTCGCCGTCC CAGCCTTGTC CTCTCGCGTG CTCCCTCGAA GGTCCCCCTT TCGGGACCAT  
5461 TCTTTATAGT CCTGTCGGGT TTGCCCCACCT CTGACTTGAG CGTCGATTTT TGTGATGCTC  
AGAAATATCA GGACAGCCCA AAGCGGTGGA GACTGAACTC GCAGCTAAAA ACACTACGAG  
5521 GTCAAGGGGG CGGAGCCTAT GGAAAAACCGC CAGCAACCCG CCCTTTTAC GGTTCCCTGGC  
CAGTCCCCCC GCCTCGGATA CCTTTTGCG GTCGTTGCGC CGGAAAAATG CCAAGGACCG

FIG. 17G



5581 CTTTGCTGG CCTTTGCTC ACATGTTCTT TCCTGCGTTA TCCCCTGATT CTGTGATAA  
GAAAACGACC GGAAAACGAG TGTACAAGAA AGGACGCAAT AGGGGACTAA GACACCTATT

5641 CCGTATTACC GCCTTGACT GAGCTGATAAC CGCTCGCCGC AGCCGAACGA CCGAGCGCAG  
GGCATAATGG CGGAAACTCA CTCGACTATG GCGAGCGGCC TCGGCTTGCT GGCTCGCGTC

5701 CGAGTCAGTG AGCGAGGAAG CGGAAGAGCG CCTGATGCCG TATTTCTCC TTACGCATCT  
GCTCAGTCAC TCGCTCCTTC GCCTTCTCGC GGACTACGCC ATAAAAGAGG AATCGTAGA

5761 GTCCGGTATT TCACACCCCA TATGTCAC TCTCACTACA ATCTGCTCTG ATGCCGCATA  
CACGCCATAA AGTGTGGCGT ATACCACGTG AGACTCATGT TAGACGAGAC TACGGCGTAT

5821 GTTAAGCCAG TATAACTCC GCTATCGCTA CGTGAUTGGG TCATGGCTGC GCCCCGACAC  
CAATTGGTC ATATGTGAGG CGATAGCGAT GCACTGACCC AGTACCGAGC CGGGGCTGTG

5881 CCGCCAACAC CCGCTGACCC GCCCTGACGG GCTTGTCTGC TCCCGGCATC CGCTTACAGA  
GGCGGTTGTG GGCGACTGCG CGGGACTGCC CGAACAGACG AGGGCCGTAG GCCAATGTCT

5941 CAAGCTGTGA CCGTCTCCGG GAGCTGCATG TGTCAAGAGGT TTTCACCGTC ATCACCGAAA  
GTTCGACACT CCCAGAGGCC CTCGACGTAC ACAGTCTCCA AAAGTGGCAG TAGTGGCTTT

6001 CGCCCGAGGC AGCTGCCGT AAGCTCATCA CGCTGGTCGT GAAGCGATTAC ACAGATGTCT  
GCCGCCTCCG TCGACGCCAT TTGGAGTAGT CGCACCCAGCA CTTCGCTAAG TGTCTACAGA

6061 GCCTGTTCAT CGCGTCCAG CTCGTTGAGT TTCTCCAGAA CGCTTAATGT CTGGCTTCTG  
CGGACAAGTA GGCGCAGGTC GAGCAACTCA AAGAGGTCTT CGCAATTACA GACCGAAGAC

6121 ATAAAGCCGG CCATGTTAAC CGCGGTTTT TCCTGTTGG TCACTTGATG CCTCCGTGTA  
TATTTCGCCC GGTACAATTCC CGGCCAAAAA AGGACAAACC AGTGAACATAC GGAGGCACAT

6181 AGGGGGAAATT TCTGTTCATG GGGGTAATGA TACCGATGAA ACCAGAGAGG ATGCTCACGA  
TCCCCCTTAA AGACAAGTAC CCCCATTACT ATGGCTACTT TGCTCTCTCC TACGAGTGCT

6241 TACGGGTTAC TGATGATGAA CATCCCCGGT TACTGGAACG TTGTGAGGGT AAACAACGG  
ATGCCCAATG ACTACTACTT GTACGGGCCA ATGACCTTGC AACACTCCCA TTGTTGACC

6301 CGGTATGGAT GCGGGGGGAC CAGAGAAAAA TCACTCAGGG TCAATGCCAG CGCTCGTTA  
GCCATACCTA CGCCGCCCTG GTCTTTT AGTGAACGCCC AGTTACGGTC GCGAAGCAAT

FIG. 17H



6361 ATACAGATGT AGGTGTTCCA CAGGGTAGCC AGCAGCATCC TGCATGCAG ATCCGAACA  
TATGCTACA TCCACAAGGT GTCCCATCGG TCGTCGTAGG ACGCTACGTC TAGGCCTTGT

6421 TAATGTCGA GGGCGCTGAC TTCCCGTTT CCAGACTTA CGAAACACGG AAACCGAAGA  
ATTACCACTT CCCCGACTG AAGGCCAAA GGTCTGAAAT GCTTGTGCC TTTGGCTTCT

6481 CCATTATGT TGTTGCTCAG GTCCAGACG TTTGCAGCA GCAGTCGCTT CACGTTCGCT  
GGTAACTACA ACAACGAGTC CAGCGTCTGC AAAACGTCGT CGTCAGCGAA GTGCAAGCGA

6541 CGCGTATCGG TGATTCAATTG TGCTAACCAAG TAAGGCAACC CCGCCAGCCT AGCCGGTCC  
GCGCATAGCC ACTAAAGTAAG ACGATTGGTC ATTCCGTTGG GCGGTCGGA TCGGCCAGG

6501 TCAACGACAG GAGCACGATC ATGGCACCC GTGCCAGGA CCCAACGCTG CCCGAGATGC  
AGTTGCTGTC CTCGTCTAG TACCGTGGG CACCGTCCT GGTTGCGAC GGGCTCTACG

6561 GCCGGTGGCG GCTGCTGGAG ATGGCGGACG CGATGGATAT GTTCTGCCAA GGTTGGTTT  
CGGGCACCGC CGACGACCTC TACCGCTGC GCTACCTATA CAAGACGGTT CCCAACCAAA

6721 CGCGATTACAGTTCTCCCG AAGAATTGAT TGGCTCCAAT TCTTGGAGTG GTGAATCCGT  
CGCGTAAGTG TCAAGAGGGG TTCTTAACCA ACCGAGGTTA AGAACCTCAC CACTTAGGCA

6781 TAGCGAGGTG CCCGGGGCTT CCATTCAAGT CGAGGTGGCC CGGCTCCATG CACCGCGACC  
ATCGCTCCAC GGCGCCCGAA GTAACTTCCA GCTCCACCGG GCCGAGGTAC GTGGCGCTGC

6841 CAACGCGGGG AGGCAGACAA GGTATAGGGC GGCGCCTACA ATCCATGCCA ACCCGTTCCA  
GTTGCGCCCC TCCGTCTGTT CCATATCCCG CGCGGATGT TAGTACGGT TGGCAAGGT

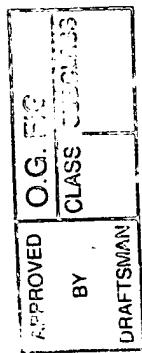
6901 TGTGCTCGCC GAGGGGGCAT AAATCGCCGT GACGATCAGC GGTCCAGTGA TCGAAGTTAG  
ACACGAGCGG CTCCGGCGTA TTTAGCGGCA CTGCTAGTCG CCAGGTCACT AGCTTCAATC

6961 GCTGGTAAGA GCCCGGAGCG ATCCTGAAG CTGTCCTGA TGGTCGTAT CTACCTGCC  
CGACCATTCT CGGGCGCTCGC TAGGAACCTTC GACAGGGACT ACCAGCAGTA GATGGACGGC

7021 GGACACCATG GCCTGCAACG CGGGCATCCC GATGCCGGCG GAAGCGAGAA GAATCATAAT  
CCTGTCGTAC CGGACGTTGC GCCCCTAGGG CTACGGCGGC CTTCGCTCTT CTTAGTATTA

7081 GGGGAAGGCC ATCCAGCCTC GCGTCGGAA CGCCAGCAAG ACGTAGCCCA GCGCGTCGGC  
CCCCCTCCGG TAGGTGGAG CGCAGCGCTT GCGGTGTTG TGCATCGGGT CGCGCAGCCG

7141 CGCCATGCCG GCGATAATGG CCTGCTTCTC GCCGAAACGT TTGGTGGCGG GACCACTGAC  
GCGGTACGGC CCCTATTACC GGACGAAGAG CGGCTTGCA AACCAACCGCC CTGGTCACTG



7201 GAAGGCTTGA GCGAGGGCGT CCAAGATTCC GAATACCGCA AGCGACAGGC CGATCATCGT  
CTTCCGAACT CGCTCCCGCA CGTTCTAAGG CTTATGGCGT TCGCTGTCCG GCTAGTAGCA

7261 CGCGCTCCAG CGAAAGCGGT CCTCGCCGAA AATGACCCAG AGCGCTGCCG GCACCTGTCC  
GCGCGAGGTC GCTTTCGCCA GGAGCGGCTT TTACTGGGT TCGCGACGGC CGTGGACAGG

7321 TACGAGTTGC ATGATAAAGA AGACACTCAT AAGTGCGGCG ACCATAGTCA TGCCCCCGCG  
ATGCTCAACG TACTATTCT TCTGTCAGTA TTCACGCCCG TGCTATCACT ACGGGGGCGCG

7381 CCACCGGAAG GAGCTGACTG CGTTGAAGGC TCTCAAGGGC ATCGGTGAC GCTCTCCCTT  
GGTGGCCTTC CTCGACTGAC CCAACTTCCG AGAGTCCCG TAGCCAGCTG CGAGAGGGAA

7441 ATGGGACTCC TGCATTAGGA ACCAGCCCAG TAGTAGGTTG AGGCGTTGA GCACCGCCCG  
TACGCTGAGG ACGTAATCCT TCGTCCGGTC ATCATCCAAC TCCGGCAACT CGTGGCCGGCG

7501 CGCAAGGAAT GGTGCATGCA AGGAGATGGC CCCAACACT CCCCCGGCCA CGGGGCGCTGC  
GCGTTCCCTTA CCACGTACGT TCCTCTACCG CGGGTTGTCA CGGGGCCGGT GCCCCGGACG

7561 CACCATAACCC ACGCCGAAAC AAGCGCTCAT GAGCCCGAAG TGGCGAGCCC GATCTTCCCC  
GTGGTATGGG TGCGGCTTTG TTCCGGAGTA CTCGGGCTTC ACCGCTCGGG CTAGAAGGGG

7621 ATCGGTGATG TCGGGATAT AGGGCCCAGC AACCGCACCT GTGGCGCCGG TGATGCCCGC  
TAGCCACTAC AGCCGCTATA TCCGCGGTG TTGGCGTGA CACCGCGGCC ACTACGGCCG

7681 CACGATGGT CCGCGTAGA GCGCCACAGG ACGGGTGTGG TCGGCATGAT CGCGTAGTCG  
GTGCTACCCA GGCCGCATCT CGCGGTGTCC TGCCCACACC AGCGTACTA GCGCATCAGC

7741 ATACTGGCTC CAACTAGCGA AGCGAGCAGG ACTGGGCGGC GGCCAAAGGC GTCGGACACT  
TATCACCGAG GTTCATCGCT TCGCTCGTCC TGACCCGCCG CGGGTTTCGC CAGCCTGTCA

7801 GCTCCGAGAA CGGGTGCAGCA TAGAAATTGC ATCAACGCAT ATACCGCTAG CAGCACGCCA  
CGAGGCTCTT GCCCACGCGT ATCTTAACG TAGTTGCGTA TATCGCGATC GTCGTGCGGT

7861 TAGTGAATGG CGATGCTGTC GGAATGGACG ATATCCCGCA AGAGGCCCGG CACTACCGGC  
ATCACTGACC GCTACGACAG CCTTACCTGC TATAAGGGCGT TCTCCGGGCC GTCATGGCCG

7921 ATAACCAAGC CTATGCCTAC AGCATCCAGG GTGACGGTGC CGAGGATGAC GATGAGGCCA  
TATTGGTTCG GATACTGGATG TCGTAGGTCC CACTGCCACG GCTCCTACTG CTACTCGCGT

7981 TTGTTAGATT TCATACACGG TGCCTGACTG CGTTAGCAAT TTAACTGTGA TAAACTACCG  
AACAACTAA AGTATGTGCC ACGGACTGAC GCAATCGTT AATTGACACT ATTTGATGCC

7041 CATT  
GTAAT